

Recovered Materials Advisory Notice (RMAN)

Source: Federal Register, 1 May 1995 (60 FR 21386-21394), 13 November 1997 (62 FR 60976-60982), 19 January 2000 (65 FR 3082-3094), 30 April 2004 (69 FR 24039-240500)

PRODUCTS FOR WHICH EPA* HAS ESTABLISHED MINIMUM RECOVERED CONTENT LEVELS		
Designated Items	Minimum Postconsumer Materials Content (%)	Minimum Total Recovered Materials Content (%)
PAPER AND PAPER PRODUCTS		
Brown papers (e.g., bags)	5	---
Corrugated boxes	35	---
Doilies	40	---
Facial tissue	5	---
Fiber boxes	35	---
High-grade bleached printing and writing paper (includes envelopes, office paper, copier paper, and others)	50 minimum percentage of waste paper as defined in 40 CFR 247	---
Newsprint	40	---
Paper napkins	30	---
Paper towels	40	---
Toilet tissue	20	---
VEHICULAR PRODUCTS		
Lubricating oil	>25	---
Rebuilt vehicular parts	60-95	---
Tires	retread tires	---
TRANSPORTATION PRODUCTS		
Channelizers (plastic)	25-95	---
Channelizers (rubber, base only)	100	---
Delineators (plastic)	25-90	---
Delineators (rubber, base only)	100	---
Delineators (steel, base only)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Flexible delineators (plastic)	25-85	---
Parking stops (concrete)		
coal fly ash	---	20-40
ground granulated blast furnace (GGBF)* slag	---	25-75
Parking stops (concrete containing)		
Parking stops (plastic or rubber)	100	---
Traffic barricades (fiberglass)	---	100
Traffic barricades (steel)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Traffic barricades, (HDPE*, LDPE*, PET*)	80-100	100
Traffic cones (PVC*, LDPE*, crumb rubber)	---	50-100
PARK AND RECREATION PRODUCTS		
Fencing (plastic)	60-100	90-100
Park benches and picnic tables (concrete)	---	15-40

PRODUCTS FOR WHICH EPA* HAS ESTABLISHED MINIMUM RECOVERED CONTENT LEVELS		
Designated Items	Minimum Postconsumer Materials Content (%)	Minimum Total Recovered Materials Content (%)
Park benches and picnic tables (aluminum)	25	---
Park benches and picnic tables (plastic composites)	50-100	100
Park benches and picnic tables (plastic)	90-100	100
Park benches and picnic tables (steel)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Playground equipment (aluminum)	25	---
Playground equipment (plastics composites)	50-75	95-100
Playground equipment (plastics)	90-100	100
Playground equipment (steel)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Playground surfaces (rubber or plastic)	90-100	---
Running tracks (rubber or plastic)	90-100	---
CONSTRUCTION PRODUCTS		
Carpet cushion (bonded polyurethane)	15-50	15-50
Carpet cushion (jute)	40	---
Carpet cushion (rubber)	60-90	60-90
Carpet cushion (synthetic fibers)	---	100
Carpet face fiber (polyester- PET* resin) (for moderate wear applications)	25-100	---
Cement and concrete (cenospheres)	---	>10
Cement and concrete (coal fly ash)	---	0-40
Cement and concrete (ground granulated blast furnace slag)	---	25-50
Cement and concrete (silica fume)	---	5-10
Consolidated latex paint	100	---
Floor tiles - heavy duty/commercial (plastic)	---	90-100
Floor tiles - heavy duty/commercial (rubber)	90-100	---
Flowable fill (containing coal fly ash and/or ferrous foundry sands)	6-95	---
Insulation materials	5-75 depending on type; select highest recovered materials content	---
Laminated paperboards	100	---
Modular threshold ramps		
Aluminum	---	10
Rubber	100	---
Steel	16-67	25-100
Non-pressure pipe (concrete)		
Cenospheres	---	>10
Coal fly ash	---	0-40
Ground granulated blast furnace slag	---	25-50
Silica fume	---	5-10
Non-pressure pipe (HDPE)	100	---
Non-pressure pipe (PVC)	5-15	25-100

Non-pressure pipe (steel)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Patio blocks (plastic or plastic blends)	---	90-100
Patio blocks (rubber or rubber blends)	90-100	---
Railroad grade crossing surfaces (concrete coal)	---	15-20
Railroad grade crossing surfaces (plastic)	85-95	100
Railroad grade crossing surfaces (rubber)	---	85-95
Railroad grade crossing surfaces (steel)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Railroad grade crossing surfaces (wood)	90-97	90-97
Reprocessed and consolidated latex paint (gray, brown, earth tones, and other dark colors)	50-99	---
Reprocessed and consolidated latex paint (white, off-white, and pastel colors)	20	---
Roofing material (aluminum)	20-95	20-95
Roofing material (concrete)		
Cenospheres	---	>10
Coal fly ash	---	0-40
Ground granulated blast furnace slag	---	25-50
Silica fume	---	5-10
Roofing material (fiber (felt) or fiber composite)	50-100	50-100
Roofing material (plastic or plastic/rubber composite)	100	---
Roofing material (rubber)	12-100	100
Roofing material (steel)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Roofing material (wood/plastic)	---	100
Shower and restroom dividers/partitions (plastic)	20-100	20-100
Shower and restroom dividers/partitions (steel)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Structural fiberboard	---	80-100
LANDSCAPING PRODUCTS		
Hose garden (rubber and/or plastic)	60-65	---
Hose soaker (rubber and/or plastic)	60-70	---
Lawn and garden edging	30-100	30-100
Paper-based hydraulic mulch	100 postconsumer recovered paper	
Plastic lumber landscaping timbers and posts (HDPE*)	25-100	75-100
Plastic lumber landscaping timbers and posts (HDPE*/fiberglass)	75	95
Plastic lumber landscaping timbers and posts (Mixed plastics/sawdust)	50	100

Plastic lumber landscaping timbers and posts (other mixed resins)	50-100	95-100
Wood-based hydraulic mulch	---	100 post consumer recovered paper
NONPAPER OFFICE PRODUCTS		
Office furniture (fabric- PET)	100	---
Office furniture (particle/fiberboard component- agricultural fiber)	---	100
Office furniture (particle/fiberboard component- wood or wood composite)	>0	80-100
Office furniture (plastic furniture component- HDPE)	70-75	95
Office furniture (remanufactured or refurbished furniture)	25-75	25-75
Office furniture (structure- aluminum)	---	75-100
Office furniture (structure- steel)	16	25-30
Office recycling containers and office waste receptacles (paper)	refer to the paper product recommendations in the "paper and paper products" section of the RMAN for specific material requirements	
Office recycling containers and office waste receptacles (plastic)	20-100	---
Office recycling containers and office waste receptacles (steel)	16	25-30
Plastic clip portfolios (HDPE*)	90	---
Plastic clipboards (HDPE*)	90	---
Plastic clipboards (misc. plastics)	15	15-80
Plastic clipboards (PS)	50	---
Plastic desktop accessories (polystyrene)	25-80	---
Plastic envelopes	25	25-35
Plastic file folder (HDPE*)	90	---
Plastic presentation folders (HDPE*)	90	---
Plastic trash bags	10-100	---
Plastic-covered binders	---	25-50
Solid plastic binders (HDPE*)	90	---
Solid plastic binders (misc. plastics)	80	---
Solid plastic binders (PE)	30-50	30-50
Solid plastic binders (PET*)	100	---
MISCELLANEOUS PRODUCTS		
Awards and plaques (glass)	75-100	100
Awards and plaques (paper)	40-100	40-100
Awards and plaques (plastic and plastic/wood composite)	50-100	95-100
Awards and plaques (wood)	---	100
Bicycle racks (HDPE)	100	---
Bicycle racks (Steel)	16	25-30
Blasting grit (bottom ash)	---	100
Blasting grit (coal slag)	---	100
Blasting grit (copper and nickel slag)	---	100
Blasting grit (fused alumina oxide)	100	---
Blasting grit (glass)	100	---
Blasting grit (glass/plastic)	20	100
Blasting grit (steel)	16-67	25-100
Blasting grit (walnut shells)	---	100

Industrial drums (fiber)	100	---
Industrial drums (HDPE*)	30-100	30-100
Industrial drums (steel)	16	25-30
Mats (plastic)	10-100	100
Mats (rubber)	75-100	85-100
Mats (rubber/plastic composite)	100	---
Paperboard pallets	50	---
Plastic pallets (plastic lumber)	100	---
Plastic pallets (thermoformed)	25-50	---
Signage (aluminum signs)	25	---
Signage (plastic sign posts/supports)	80-100	80-100
Signage (plastic signs)	80-100	80-100
Signage (steel sign posts/supports)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Sorbents used in oil and solvent cleanup and animal bedding (other organics/ multi-materials)	---	100
Sorbents used in oil and solvent cleanup and animal bedding (paper)	90-100	100
Sorbents used in oil and solvent cleanup and animal bedding (plastics)	---	25-100
Sorbents used in oil and solvent cleanup and animal bedding (textiles)	95-100	95-100
Sorbents used in oil and solvent cleanup and animal bedding (wood)	---	100
Strapping and stretch wrap (polyester)	50-85	50-85
Strapping and stretch wrap (polypropylene)	---	10-40
Strapping and stretch wrap (steel)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Wooden pallets	95-100	---

*EPA = Environmental Protection Agency; PVC = Polyvinyl chloride; LDPE = Linear low density polyethylene; HDPE = High density polyethylene; PET = Polyethylene Terephthalate; GGBF = Ground granulated blast furnace.